UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/587,663	04/14/2008	Pierre Untersinger	8952-000009/US/NP	8296
27572 7590 11/03/2009 HARNESS, DICKEY & PIERCE, P.L.C.			EXAMINER	
P.O. BOX 828		ENGLISH, JAMES A		
BLOOMFIELD HILLS, MI 48303			ART UNIT	PAPER NUMBER
			3616	
			MAIL DATE	DELIVERY MODE
			11/03/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/587,663	UNTERSINGER ET AL.		
Office Action Summary	Examiner	Art Unit		
	James English	3616		
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the o	correspondence address		
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	NATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tinwill apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on 21 C This action is FINAL . 2b) ☑ This Since this application is in condition for allowated closed in accordance with the practice under the condition of the condition.	s action is non-final. ince except for formal matters, pro			
Disposition of Claims				
4) Claim(s) 1-7 and 9-11 is/are pending in the ap 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-7 and 9-11 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	wn from consideration.			
Application Papers				
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomposed and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct to by the E	cepted or b) objected to by the land drawing(s) be held in abeyance. Section is required if the drawing(s) is objected to by the land drawing(s) is objected to be land drawing(s).	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:	ate		

Art Unit: 3616

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-7 and 9-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Spencer et al. (US 6,619,689 B2) in view of Hirai et al. (US 5,945,185).

With respect to claims 1 and 9, Spencer et al. discloses a method of making an airbag (232) and an airbag (232), the method comprising the steps of blow moulding a selected plastics material comprising PC to form the airbag (232) utilizing a mould corresponding to the final uninflated state (273, 275) of the airbag (232). (Figs. 12 and 18-19, col. 4, lines 4-11, col. 6, lines 7-27 and col. 7, lines 1-4.) Spencer et al. further discloses the mould being such that the moulded airbag (232) has at least one indented region (44), which, on inflation of the airbag (232) becomes outwardly extending. (Figs. 7-8, col. 4, lines 12-40.) Spencer et al. suggests that other suitable thermoplastic materials may be used but does not specifically state using ABS. (Col. 6, line 67 and col. 7, lines 1-4.) Hirai et al. teaches of a blow molded airbag made of a thermoplastic polyurethane resin comprising ABS and PC. (Col. 1, lines 5-10, col. 4, lines 35-52, col. 5, lines 41-46, 65-67 and col. 6, line 5.) It would have been obvious to one having ordinary skill in the art at the time the invention was made to make a blow-moulded airbag made of ABS and PC as described in Hirai et al. into the invention of Spencer et

Art Unit: 3616

al. in order to survive hostile conditions, such as efficient deployment over a range of temperatures. (Col. 1, lines 63-67.)

With respect to claim 2, Spencer et al. discloses a gas generator (270) for the airbag (232). (Col. 6, lines 1-6.)

With respect to claims 3-5 and 10-11, Spencer et al. discloses the indented region (269) comprises an annular indented groove that comprises a central indented area. (Figs. 14 and 17-19, col. 6, lines 34-40.)

With respect to claims 6-7, Spencer et al., as modified, discloses using polycarbonate (PC) and Acrylonitrile-Butadiene-Styrene (ABS) to form the airbag. Spencer et al., as modified, discloses using the claimed invention except for specifying using at least 40% ABS and PC or at least 80% ABS and PC. It would have been obvious to one having ordinary skill in the art at the time the invention was made to make the airbag out of at least 40% ABS and PC or at least 80% ABS and PC, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. *In re Aller*, 105 USPQ 233.

3. Claims 1-3, 6-7 and 9-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Khoudari et al. (US 2002/01858847) in view of Matsuoka et al. (US 2004/0138377).

With respect to claims 1 and 9, Khoudari et al. discloses a method of making an airbag (40) and an airbag (40), the method comprising the steps of blow moulding a selected plastics material comprising PC to form the airbag (40) utilizing a mould

corresponding to the final uninflated state (56) of the airbag (40). (Figs. 1-2 and 4-5, paragraphs 20 and 25.) Khoudari et al. further discloses the mould being such that the moulded airbag (40) has at least one indented region (50), which, on inflation of the airbag (40) becomes outwardly extending. (Figs. 4-5, paragraphs 22-23.) Khoudari et al. provides examples of other suitable thermoplastic materials that may be used but does not specifically state using ABS. (Paragraph 25.) Matsuoka et al. teaches of a blow molded thermoplastic resin applicable to air bags comprising ABS (Paragraph 67, line 13) and PC (Paragraph 67, line 10). (Paragraphs 67, 98-100.) It would have been obvious to one having ordinary skill in the art at the time the invention was made to use ABS to make a blow-moulded airbag as described in Matsuoka et al. into the invention of Khoudari et al. in order to achieve an airbag with characteristics of workability and moldability. (Paragraph 7.)

With respect to claim 2, Khoudari et al. discloses a gas generator for the airbag (40). (Paragraph 24.)

With respect to claims 3 and 10, Khoudari et al. discloses the indented region (50) comprises an indented groove. (Figs. 4-5.)

With respect to claims 6-7, Khoudari et al., as modified, discloses using polycarbonate (PC) and Acrylonitrile-Butadiene-Styrene (ABS) to form the airbag. Khoudari et al. discloses using the claimed invention except for specifying using at least 40% ABS and PC or at least 80% ABS and PC. It would have been obvious to one having ordinary skill in the art at the time the invention was made to make the airbag out of at least 40% ABS and PC or at least 80% ABS and PC, since it has been held that

Art Unit: 3616

where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. *In re Aller*, 105 USPQ 233.

Response to Arguments

- 4. Applicant's arguments filed 10/21/2009 have been fully considered but they are not persuasive. Applicant first argues that Hirai does not provide any teaching to combine ABS with the PC airbag of the primary Spencer reference. The Spencer reference suggests that other suitable thermoplastic materials may be used but does not specifically state using ABS. (Col. 6, line 67 and col. 7, lines 1-4.) Hirai teaches of using polycarbonate (col. 4, lines 35-52, specifically line 43) and ABS (col. 5, lines 41-48) to form a blow moulded airbag. Applicant also argues that Matsuoka et al. does not provide any teaching to combine ABS with the PC airbag of the primary Khoudari reference. Khoudari et al. provides examples of other suitable thermoplastic materials that may be used but does not specifically state using ABS. (Paragraph 25.) Hirai teaches of using polycarbonate (Paragraph 67) and ABS (Paragraph 67) to form a blow moulded airbag. (Paragraphs 98-100.)
- 5. Applicant's arguments, see Remarks p. 5-7, filed 10/21/2009, with respect to the rejection(s) of claim(s) 4-5 under Spencer et al. have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Spencer et al. Applicant argues region (259) of the Spencer reference does not show an annular region. (259)

Art Unit: 3616

does not show an annular central indented groove. However, (269) shown in Fig. 14 does show an annular central indented groove. (Figs. 14 and 17-19, col. 6, lines 34-40.)

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James English whose telephone number is (571)270-7014. The examiner can normally be reached on Monday - Friday, 8:00 - 4:30 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul N. Dickson can be reached on (571)272-7742. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/James English/ Examiner, Art Unit 3616

Art Unit: 3616

/Paul N. Dickson/ Supervisory Patent Examiner, Art Unit 3616